PCT/US94/00089, filed January 4, 1994, which is a continuation-in-part of United States application Serial No. 07/936,660, filed August 28, 1992, now abandoned.--

Page 8, after line 33, please add the following paragraphs:

--Figure 8 is an immunoblot illustrating the dose-dependent effect of PDGF on UEGF expression in MCF-7 cells.

Figure 9 is an immunoblot showing the effect of EGF and 12-HETE on VEGF expression in MCF-7 cells.

Figure 10 is an immunoblot providing data on the effect of 12-HETE on VEGF expression in an immortalized human aortic smooth muscle cell line.

Figure 11 provides data on the effects of 12-LO products on DNA synthesis in RINm5F cells.

Figure 12 is a Western blot of proteins isolated from RINm5F cells showing the effect of IL-1β on 12-LO protein expression.

Figure 13 illustrates the effects of IL-1β on 12-HETE production in rat islets.

Figure 14A shows the effects of IL-1B on 12-LO mRNA expression in porcine aortic smooth muscle cells. Figures 14B and 14C show the same information for IL-4 and IL-8, respectively.

Figure 15 illustrates data on mRNA for the marker GAPDH.

Figure 16 illustrates the effect of IL-4 on leukocyte 12-LO protein expression in porcine vascular smooth muscle cells.

Figure 17 shows the same data as Figure 16 for IL-8.

Figure 18 provides data on the effect of IL-4 on 12-LO activity in porcine smooth muscle cells.

Figure 19 shows the same data as Figure 18 for IL-8.

Figure 20 illustrates data regarding the upregulation of human leukocyte 12-LO by IL-1, IL-4 and IL-8.

Figure 21 shows increases in 12-LO mRNA in the pancreatic islets of increasingly diabetic rats.

Figure 22 shows levels of 12-LO mRNA in diabetic and non-diabetic ZDF rats.

Figure 23 present data pertaining to rat fibroblasts overexpressing the human insulin receptor at different glucose concentrations in the presence or absence of baicalein.

Figure 24 shows data regarding the HETE/PGI_2 ratio in different diabetic groups.

Figure 25 provides data regarding Wistar and GK rats under Chow and Cafeteng diet conditions.

Figure 26 shows increased amounts of 12-LO in diabetic (GK) rats compared to normal (Wistar rats).

Figure 27 shows data demonstrating increase in phosphorylation of the insulin receptor β subunit by insulin as affected by 12-HETE.

Figure 28A shows glucose levels in rats fed a high fat diet versus a control diet. Figure 28B represents the area under the glucose-tolerance curve in Figure 28A for high fat fed rats and control rats.

Figure 29 illustrates JNK activity as a function of 12-HETE concentration.

Figure 30 is an immunoblot showing JAK1 and JAK2 bands under control and 10^{-7}M 12-HETE conditions.--

IN THE DRAWINGS:

Applicant is submitting herewith twenty-four (24) sheets of formal drawings. Please replace the twenty-three (23) sheets of informal drawings with the new formal drawings.

AFTER THE SPECIFICATION:

Please delete the Sequence Listing at pages 54-59 and substitute therefore the attached substitute Sequence Listing.